

## MATERIAL SAFETY DATA SHEET

### SECTION 1. Product and Company Identification

**PRODUCT NAME:** Nu Shield Fluoride Varnish

**COMMON OR CHEMICAL NAME:** Dental Varnish with Fluoridizing Additive

**MANUFACTURED BY:**

Nu Radiance, Inc.  
795 Coronis Way  
Green Bay, WI 54304  
USA

**GENERAL INFORMATION:**

920-965-0953

### SECTION 2. Composition/Information on Ingredients

**Product Contents:** Colophony Desensitizing Dental Varnish, Bubble Gum Flavor

**Hazardous Ingredients:** Ethyl Alcohol

Proper Shipping Name: Ethyl Alcohol  
CAS: 64-17-5  
UN Designation: UN1170  
Class: 3, Flammable Liquid  
Packing Group: II

**HAZARDOUS DATA**

Health: **0**  
Flammability: **3**  
Reactivity: **0**

**Hazardous Data Legend**

4 - Extreme  
3 - High  
2 - Moderate  
1 - Slight  
0 - Insignificant

**Sodium Fluoride** (5% by weight)

Proper Shipping Name: Sodium Fluoride  
CAS: 7681-49-4  
UN Designation: UN1690  
Class: 6.1. Toxic  
Packing Group: III

**HAZARDOUS DATA**

Health: **2**  
Flammability: **0**  
Reactivity: **2**

**Hazardous Data Legend**

4 - Extreme  
3 - High  
2 - Moderate  
1 - Slight  
0 - Insignificant

### SECTION 3. Hazards Identification

For potential health hazards: SEE section 11 below.

No significant hazards to man or the environment are reasonably foreseen.

### SECTION 4. First Aid Measures

**Inhalation:** Prolonged exposure may cause headache, drowsiness, fatigue, and listlessness.

**Skin Contact:** May cause irritation and allergic reaction upon prolonged contact. If symptoms persist, seek medical attention.

**Eye Contact:** Wash with copious amount of water; seek medical attention if irritation persists.

**Ingestion:** In case large quantities are swallowed, may cause nausea, vomiting, diarrhea, or depression.

### SECTION 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Use dry chemical, "alcohol" foam, or carbon dioxide. Water may be less effective, but useful to extinguish major fires or to cool fire exposed containers.

**Extinguishing Media which should not be used:** None known.

**Special exposure hazards from combustion products:** None in quantities as packaged.

**Special protective equipment for fire-fighters:** If exposed to smoke or fumes, the use of self-contained breathing equipment is indicated.

## SECTION 6. Accidental Release Measures

**Personal Precautions:** Avoid contact of skin or eyes. Wash hands with soap and water if skin contact occurs.

**Environmental Precautions:** If spills occur, collect material in containers with well-sealed closures.

**Methods for Cleaning Up:** Wear appropriate respiratory protection and protective clothing. Collect using absorbent media.

## SECTION 7. Handling and Storage

**Handling Precautions:** All ignition sources should be eliminated. Smoking should be prohibited in work and storage areas. Store away from oxidizing chemicals and materials reactive with alcohol or moisture.

**Safe Storage Conditions:** Store in well-sealed containers out of sunlight and away from heat.

**Other Restrictions or Recommendations:** Usual for flammable materials.

## SECTION 8. Exposure Controls/Personal Protection

**Respiratory Protection & Ventilation:** When handling large quantities use NIOSH/MSHA approved respiratory protective equipment.

**Protective Clothing or Equipment:** When handling large quantities wear gloves, protective clothing, and goggles impervious to alcohol.

**Unusual Work/Hygienic Practices:** Avoid contact with skin; if contact occurs, wash immediately with soap and water.

## SECTION 9. Physical and Chemical Properties

**Appearance:** Yellow – beige with possible orange tint

**Odor:** Characteristic

**pH:** Not applicable.

**Boiling Point/Range:** ~78.3°C at 760 mm Hg

**Melting Point/Range:** Not applicable.

**Flash Point:** 16°C

**Auto-Ignition Temperature:** ~400°C

**Flammability:** Yes

**Explosive Limits in Air:** 3.3% – 19.0% ( vol.)

**Oxidizing Properties:** None.

**Vapor pressure (mm Hg):** 60 mm Hg at 26°C

**Vapor Density (Air=1):** ~1.59

**Specific Gravity (H<sub>2</sub>O=1):** ~1

**Solubility in Water:** Partially soluble.

**Reactivity in Water:** Not reactive.

**Other Data:** Tendency to phase separation upon storage.

## SECTION 10. Stability and Reactivity

**Stability:** Generally stable.

**Conditions of Instability:** Elevated temperatures (above 78°C).

**Incompatibility with Various Substances:** NaK, oxidizing agents.

**Hazardous Decomposition Products:** Ethyl aldehyde, carbon monoxide (in case of fire).

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Contact with oxidizing agent, metallic sodium or potassium, exposure to elevated temperatures, exposure to source of flame.

### SECTION 11. Toxicological Information

**Potential Acute Health Effects:** Eye irritation upon contact. Skin irritation upon prolonged exposure. Allergic reactions to colophony reported, particularly upon frequent and repetitious skin exposure.

**Potential Chronic Health Effects:** Possibility of eye damage and skin sensitization upon prolonged or repeated exposure.

**Signs and Symptoms of Exposure:** Skin or eye irritation, skin itching or redness, etc.

**Medical Conditions Generally Aggravated by Exposure:** None known.

**Carcinogenic or Potential Carcinogenic Effects:** No ingredient listed as a carcinogen.

**Other Potential Health Effects:** None known.

### SECTION 12. Ecological Information

No ecological damage or impact anticipated.

### SECTION 13. Disposal Considerations

**Waste Disposal:** Do not expose in community sewer system. Dispose in accordance with all federal, state, and local regulations.

### SECTION 14. Transport Information

**UN Classification:** UN1170

**Identification:** Ethyl Alcohol

**Special Provisions for Transport:** SEE current Dangerous Goods Regulations.

### SECTION 15. Regulatory Information

**U.S. FDA Dental Device:** Class II product

**EC Medical Device Directive:** Class IIa product

### SECTION 16. Other Information

*Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this MSDS information may not be applicable.*

**MSDS Approved by: Edwin D Novak**